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<110> Hall, Roderick L  
Poll, Christopher T.  
Newton, Benjamin B.  
Taylor, William J.A.

<120> A Method for Accelerating the Rate of Mucociliary Clearance

<130> 98,736-A

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<141> 1999-11-17

<150> 09/218,913

<151> 1998-12-22

<160> 71

<170> Microsoft Word 97

<210> 1

<211> 179

<212> PRT

<213> Homo sapien

<400> 1

Ala Asp Arg Glu Arg Ser Ile His Asp Phe Cys Leu Val Ser Lys Val  
1 5 10 15  
Val Gly Arg Cys Arg Ala Ser Met Pro Arg Trp Trp Tyr Asn Val Thr  
20 25 30  
Asp Gly Ser Cys Gln Leu Phe Val Tyr Gly Gly Cys Asp Gly Asn Ser  
35 40 45  
Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu Lys Lys Cys Ala Thr Val  
50 55 60  
Thr Glu Asn Ala Thr Gly Asp Leu Ala Thr Ser Arg Asn Ala Ala Asp  
65 70 75 80  
Ser Ser Val Pro Ser Ala Pro Arg Arg Gln Asp Ser Glu Asp His Ser  
85 90 95  
Ser Asp Met Phe Asn Tyr Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr  
100 105 110  
Gly Pro Cys Arg Ala Ser Phe Pro Arg Trp Tyr Phe Asp Val Glu Arg  
115 120 125  
Asn Ser Cys Asn Asn Phe Ile Tyr Gly Gly Cys Arg Gly Asn Lys Asn  
130 135 140  
Ser Tyr Arg Ser Glu Glu Ala Cys Met Leu Arg Cys Phe Arg Gln Gln  
145 150 155 160  
Glu Asn Pro Pro Leu Pro Leu Gly Ser Lys Val Val Val Leu Ala Gly  
165 170 175  
Ala Val Ser

<210> 2  
 <211> 197  
 <212> PRT  
 <213> Homo sapien

<220>  
 <221> sig\_peptide  
 <222> 1..18

<400> 2  
 Ala Gly Ser Phe Leu Ala Trp Leu Gly Ser Leu Leu Leu Ser Gly Val  
 1 5 10 15  
 Leu Ala Ala Asp Arg Glu Arg Ser Ile His Asp Phe Cys Leu Val Ser  
 20 25 30  
 Lys Val Val Gly Arg Cys Arg Ala Ser Met Pro Arg Trp Trp Tyr Asn  
 35 40 45  
 Val Thr Asp Gly Ser Cys Gln Leu Phe Val Tyr Gly Gly Cys Asp Gly  
 50 55 60  
 Asn Ser Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu Lys Lys Cys Ala  
 65 70 75 80  
 Thr Val Thr Glu Asn Ala Thr Gly Asp Leu Ala Thr Ser Arg Asn Ala  
 85 90 95  
 Ala Asp Ser Ser Val Pro Ser Ala Pro Arg Arg Gln Asp Ser Glu Asp  
 100 105 110  
 His Ser Ser Asp Met Phe Asn Tyr Glu Glu Tyr Cys Thr Ala Asn Ala  
 115 120 125  
 Val Thr Gly Pro Cys Arg Ala Ser Phe Pro Arg Trp Tyr Phe Asp Val  
 130 135 140  
 Glu Arg Asn Ser Cys Asn Asn Phe Ile Tyr Gly Gly Cys Arg Gly Asn  
 145 150 155 160  
 Lys Asn Ser Tyr Arg Ser Glu Glu Ala Cys Met Leu Arg Cys Phe Arg  
 165 170 175  
 Gln Gln Glu Asn Pro Pro Leu Pro Leu Gly Ser Lys Val Val Val Leu  
 180 185 190  
 Ala Gly Ala Val Ser  
 195

<210> 3  
 <211> 153  
 <212> PRT  
 <213> Homo sapien

<400> 3  
 Ile His Asp Phe Cys Leu Val Ser Lys Val Val Gly Arg Cys Arg Ala  
 1 5 10 15  
 Ser Met Pro Arg Trp Trp Tyr Asn Val Thr Asp Gly Ser Cys Gln Leu  
 20 25 30  
 Phe Val Tyr Gly Gly Cys Asp Gly Asn Ser Asn Asn Tyr Leu Thr Lys  
 35 40 45

Glu Glu Cys Leu Lys Lys Cys Ala Thr Val Thr Glu Asn Ala Thr Gly  
 50 55 60  
 Asp Leu Ala Thr Ser Arg Asn Ala Ala Asp Ser Ser Val Pro Ser Ala  
 65 70 75 80  
 Pro Arg Arg Gln Asp Ser Glu Asp His Ser Ser Asp Met Phe Asn Tyr  
 85 90 95  
 Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr Gly Pro Cys Arg Ala Ser  
 100 105 110  
 Phe Pro Arg Trp Tyr Phe Asp Val Glu Arg Asn Ser Cys Asn Asn Phe  
 115 120 125  
 Ile Tyr Gly Gly Cys Arg Gly Asn Lys Asn Ser Tyr Arg Ser Glu Glu  
 130 135 140  
 Ala Cys Met Leu Arg Cys Phe Arg Gln  
 145 150

<210> 4  
 <211> 58  
 <212> PRT  
 <213> Homo sapien

<400> 4  
 Ile His Asp Phe Cys Leu Val Ser Lys Val Val Gly Arg Cys Arg Ala  
 1 5 10 15  
 Ser Met Pro Arg Trp Trp Tyr Asn Val Thr Asp Gly Ser Cys Gln Leu  
 20 25 30  
 Phe Val Tyr Gly Gly Cys Asp Gly Asn Ser Asn Asn Tyr Leu Thr Lys  
 35 40 45  
 Glu Glu Cys Leu Lys Lys Cys Ala Thr Val  
 50 55

<210> 5  
 <211> 51  
 <212> PRT  
 <213> Homo sapien

<400> 5  
 Cys Leu Val Ser Lys Val Val Gly Arg Cys Arg Ala Ser Met Pro Arg  
 1 5 10 15  
 Trp Trp Tyr Asn Val Thr Asp Gly Ser Cys Gln Leu Phe Val Tyr Gly  
 20 25 30  
 Gly Cys Asp Gly Asn Ser Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu  
 35 40 45  
 Lys Lys Cys  
 50

<210> 6  
 <211> 58  
 <212> PRT  
 <213> Homo sapien

<400> 6  
Tyr Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr Gly Pro Cys Arg Ala  
1 5 10 15  
Ser Phe Pro Arg Trp Tyr Phe Asp Val Glu Arg Asn Ser Cys Asn Asn  
20 25 30  
Phe Ile Tyr Gly Gly Cys Arg Gly Asn Lys Asn Ser Tyr Arg Ser Glu  
35 40 45  
Glu Ala Cys Met Leu Arg Cys Phe Arg Gln  
50 55

<210> 7  
<211> 51  
<212> PRT  
<213> Homo sapien

<400> 7  
Cys Thr Ala Asn Ala Val Thr Gly Pro Cys Arg Ala Ser Phe Pro Arg  
1 5 10 15  
Trp Tyr Phe Asp Val Glu Arg Asn Ser Cys Asn Asn Phe Ile Tyr Gly  
20 25 30  
Gly Cys Arg Gly Asn Lys Asn Ser Tyr Arg Ser Glu Glu Ala Cys Met  
35 40 45  
Leu Arg Cys  
50

<210> 8  
<211> 92  
<212> PRT  
<213> Homo sapien

<400> 8  
Ala Asp Arg Glu Arg Ser Ile His Asp Phe Cys Leu Val Ser Lys Val  
1 5 10 15  
Val Gly Arg Cys Arg Ala Ser Met Pro Arg Trp Trp Tyr Asn Val Thr  
20 25 30  
Asp Gly Ser Cys Gln Leu Phe Val Tyr Gly Gly Cys Asp Gly Asn Ser  
35 40 45  
Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu Lys Lys Cys Ala Thr Val  
50 55 60  
Thr Glu Asn Ala Thr Gly Asp Leu Ala Thr Ser Arg Asn Ala Ala Asp  
65 70 75 80  
Ser Ser Val Pro Ser Ala Pro Arg Arg Gln Asp Ser  
85 90

<210> 9  
<211> 708  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> 679..708

<223> /note= "n at positions 622, 679, 707 is any nucleic acid"

<400> 9

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ggccgggtcg tttctgcct ggtgggac gctgctctc tctggggtec tggcgccga      60
ccgagaacgc agcatccacg acttctgcct ggtgtcgaag gtgggtgggca gatgccgggc    120
ctccatgcct aggtgggtgt acaatgtcac tgacggatcc tgccagctgt ttgtgtatgg    180
gggctgtgac ggaaacagca ataattacct gaccaaggag gagtgcctca agaaatgtgc    240
cactgtcaca gagaatgccg cgggtgacct ggccaccagc aggaatgcag cggattcctc    300
tgtcccaagt gctcccagaa ggcaggattc tgaagaccac tccagcgata tgttcaacta    360
tgaagaatac tgcaccgccg acgcagtcac tgggccttgc cgtgcatcct tcccacgctg    420
gtactttgac gtggagagga actcctgcaa taacttcac tatggaggct gccggggcaa    480
taagaacagc taccgctctg aggaggcctg catgctccgc tgcttccgcc agcaggagaa    540
tcctcccctg ccccttggtc caaagggtgt ggttctggcc ggggctgttt cgtgatggtg    600
ttgatccttt tcctggggag cntccatggt cttactgatt ccgggtggca aggaggaacc    660
aggagcgtgc cctgcggnac gtctggagct tcggagatga caagggnt                708

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<210> 10

<211> 235

<212> PRT

<213> Homo sapien

<220>

<221> peptide

<222> 1..235

<223> /note= "Xaa at positions 198, 201, 226, and 233 are unknown amino acids"

<400> 10

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Ala Gly Ser Phe Leu Ala Trp Leu Gly Ser Leu Leu Leu Ser Gly Val
1           5           10           15
Leu Ala Ala Asp Arg Glu Arg Ser Ile His Asp Phe Cys Leu Val Ser
20           25           30
Lys Val Val Gly Arg Cys Arg Ala Ser Met Pro Arg Trp Trp Tyr Asn
35           40           45
Val Thr Asp Gly Ser Cys Gln Leu Phe Val Tyr Gly Gly Cys Asp Gly
50           55           60
Asn Ser Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu Lys Lys Cys Ala
65           70           75           80
Thr Val Thr Glu Asn Ala Thr Gly Asp Leu Ala Thr Ser Arg Asn Ala
85           90           95
Ala Asp Ser Ser Val Pro Ser Ala Pro Arg Arg Gln Asp Ser Glu Asp
100          105          110
His Ser Ser Asp Met Phe Asn Tyr Glu Glu Tyr Cys Thr Ala Asn Ala
115          120          125

```

Val Thr Gly Pro Cys Arg Ala Ser Phe Pro Arg Trp Tyr Phe Asp Val  
 130 135 140  
 Glu Arg Asn Ser Cys Asn Asn Phe Ile Tyr Gly Gly Cys Arg Gly Asn  
 145 150 155 160  
 Lys Asn Ser Tyr Arg Ser Glu Glu Ala Cys Met Leu Arg Cys Phe Arg  
 165 170 175  
 Gln Gln Glu Asn Pro Pro Leu Pro Leu Gly Ser Lys Val Val Val Leu  
 180 185 190  
 Ala Gly Ala Val Ser Xaa Trp Cys Xaa Ser Phe Ser Trp Gly Ala Ser  
 195 200 205  
 Met Val Leu Leu Ile Pro Gly Gly Lys Glu Glu Pro Gly Ala Cys Pro  
 210 215 220  
 Ala Xaa Arg Leu Glu Leu Arg Arg Xaa Gln Gly  
 225 230 235  
 <210> 11  
 <211> 179  
 <212> PRT  
 <213> Homo sapien  
 <220>  
 <221> peptide  
 <222> 1..170  
 <223> /note= "Xaa at positions 8, 17, 19, 21-26, 40, 42, 45-47, 52, 64,  
 103, 112, 114, 116-121, 135, 137, 140-142, 147, and 159 is any  
 amino acid residue"  
 <400> 11  
 Ala Asp Arg Glu Arg Ser Ile Xaa Asp Phe Cys Leu Val Ser Lys Val  
 1 5 10 15  
 Xaa Gly Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Trp Trp Tyr Asn Val Thr  
 20 25 30  
 Asp Gly Ser Cys Gln Leu Phe Xaa Tyr Xaa Gly Cys Xaa Xaa Xaa Ser  
 35 40 45  
 Asn Asn Tyr Xaa Thr Lys Glu Glu Cys Leu Lys Lys Cys Ala Thr Xaa  
 50 55 60  
 Thr Glu Asn Ala Thr Gly Asp Leu Ala Thr Ser Arg Asn Ala Ala Asp  
 65 70 75 80  
 Ser Ser Val Pro Ser Ala Pro Arg Arg Gln Asp Ser Glu Asp His Ser  
 85 90 95  
 Ser Asp Met Phe Asn Tyr Xaa Glu Tyr Cys Thr Ala Asn Ala Val Xaa  
 100 105 110  
 Gly Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Trp Tyr Phe Asp Val Glu Arg  
 115 120 125  
 Asn Ser Cys Asn Asn Phe Xaa Tyr Xaa Gly Cys Xaa Xaa Xaa Lys Asn  
 130 135 140  
 Ser Tyr Xaa Ser Glu Glu Ala Cys Met Leu Arg Cys Phe Arg Xaa Gln  
 145 150 155 160

Glu Asn Pro Pro Leu Pro Leu Gly Ser Lys Val Val Val Leu Ala Gly  
165 170 175

Ala Val Ser

<210> 12  
<211> 393  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> 390..391  
<223> /note= "residue 361 is any nucleic acid"

<220>  
<221> misc\_feature  
<222> 390..391  
<223> /note= "residue 367 is any nucleic acid"

<220>  
<221> misc\_feature  
<222> 384..385  
<223> /note= "residue 384 is any nucleic acid"

<220>  
<221> misc\_feature  
<222> 367..368  
<223> /note= "residue 390 is any nucleic acid"

<400> 12  
ggccgggtcg tttctgcct ggctgggac gctgctcctc tctggggtcc tggccggccg 60  
accgagaacg cagcatccac gacttctgcc tgggtgtcgaa ggtggtgggc agattccggg 120  
cctccatgcc taggtggtgg tacaatgtca ctgacggatc ctgccagctg tttgtgtatg 180  
ggggctgtga cggaacacg aataattacc tgaccaagga ggagtgcctc aagaaatgtg 240  
ccactgtcac agagaatgcc acgggtgacc tggccaccag caggaatgca gcggattcct 300  
ctgtcccaag tgctcccaga aggcaggatt cttgaagacc acttcagcga tatgtttcaa 360  
ntattgnaag aataattgca ccgnaacgn att 393

<210> 13  
<211> 130  
<212> PRT  
<213> Homo sapien

<220>  
<221> Region  
<222> 1..18  
<223> /label= signal peptide

<220>  
<221> Peptide  
<222> 111..130  
<223> /note= "Xaa at positions 111, 120, 122, 128, and 130 represents a nonsense or stop codon"

<400> 13

Pro Gly Arg Phe Ser Pro Gly Trp Asp Arg Cys Ser Ser Leu Gly Ser  
 1 5 10 15  
 Trp Pro Ala Asp Arg Glu Arg Ser Ile His Asp Phe Cys Leu Val Ser  
 20 25 30  
 Lys Val Val Gly Arg Glu Arg Ala Ser Met Pro Arg Trp Trp Tyr Asn  
 35 40 45  
 Val Thr Asp Gly Ser Cys Gln Leu Phe Val Tyr Gly Gly Cys Asp Gly  
 50 55 60  
 Asn Ser Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu Lys Lys Cys Ala  
 65 70 75 80  
 Thr Val Thr Glu Asn Ala Thr Gly Asp Leu Ala Thr Ser Arg Asn Ala  
 85 90 95  
 Ala Asp Ser Ser Val Pro Ser Ala Pro Arg Arg Gln Asp Ser Xaa Arg  
 100 105 110  
 Pro Leu Gln Arg Tyr Val Ser Xaa Ile Xaa Arg Ile Ile Ala Pro Xaa  
 115 120 125  
 Thr Xaa  
 130

<210> 14  
 <211> 511  
 <212> DNA  
 <213> Homo sapien  
 <220>  
 <221> misc\_feature  
 <222> 425..510  
 <223> /note= "n at positions 425, 482, and 510 is any nucleic acid"

<400> 14  
 gcaataatta cctgaccaag gaggagtgcc tcaagaaatg tgccactgtc acagagaatg 60  
 ccacgggtga cctggccacc agcaggaatg cagcggattc ctctgtccca agtgctccca 120  
 gaaggcagga ttctgaagac cactccagcg atatgttcaa ctatgaagaa tactgcaccg 180  
 ccaacgcagt cactgggcct tgccgtgcat ccttcccacg ctggtacttt gacgtggaga 240  
 ggaactcctg caataacttc atctatggag gctgccgggg caataagaac agctaccgct 300  
 ctgaggaggc ctgcatgctc cgctgcttcc gccagcagga gaatcctccc ctgccccttg 360  
 gctcaaaggt ggtggttctg gccggggctg tttcgtgatg gtgttgatcc ttttcctggg 420  
 gagcntccat ggtcttactg attccgggtg gcaaggagga accaggagcg tgccctgcgg 480  
 ancgtctgga gcttcggaga tgacaagggn t 511

<210> 15  
 <211> 169  
 <212> PRT  
 <213> Homo sapien

<220>  
 <221> peptide



<222> 1..169  
 <223> /note= "Xaa at positions 2, 23, 132, 160, and 167 represent a nonsense or stop codon"

<400> 15  
 Gln Xaa Leu Pro Asp Gln Gly Gly Val Pro Gln Glu Met Cys His Cys  
 1 5 10 15  
 His Arg Glu Cys His Gly Xaa Pro Gly His Gln Gln Glu Cys Ser Gly  
 20 25 30  
 Phe Leu Cys Pro Lys Ser Pro Arg Arg Gln Asp Ser Glu Asp His Ser  
 35 40 45  
 Ser Asp Met Phe Asn Tyr Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr  
 50 55 60  
 Gly Pro Cys Arg Ala Ser Phe Pro Arg Trp Tyr Phe Asp Val Glu Arg  
 65 70 75 80  
 Asn Ser Cys Asn Asn Phe Ile Tyr Gly Gly Cys Arg Gly Asn Lys Asn  
 85 90 95  
 Ser Tyr Arg Ser Glu Glu Ala Cys Met Leu Arg Cys Phe Arg Gln Gln  
 100 105 110  
 Glu Asn Pro Pro Leu Pro Leu Gly Ser Lys Val Val Val Leu Ala Gly  
 115 120 125  
 Ala Val Ser Xaa Trp Cys Xaa Ser Phe Ser Trp Gly Ala Ser Met Val  
 130 135 140  
 Leu Leu Ile Pro Gly Gly Lys Glu Glu Pro Gly Ala Cys Pro Ala Xaa  
 145 150 155 160  
 Arg Leu Glu Leu Arg Arg Xaa Gln Gly  
 165

<210> 16  
 <211> 431  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> 1..430  
 <223> /note= "n at positions 3, 11, 12, 17, 51 and 429 represent any nucleic acid"

<400> 16  
 gcngcgcgtt nntcgcntgc tgggatcgct gctgcacctc tctggggctc nggcggccga 60  
 ccgagaacgc agcatccacg acttctgcct ggtgtcgaag gtggtgggca gatgccgggc 120  
 ctccatgcct aggtggtggt acaatgtcac tgacggatcc tgccagctgt ttgtgtatgg 180  
 gggctgtgac ggaaacagca ataattacct gaccaaggag gagtgcctca agaaatgtgc 240  
 cactgtcaca gagaatgcca cgggtgacct ggccaccagc aggaatgcag cggtattcctc 300  
 tgtcccaagt gctcccagaa ggcaggattc ttgaagacca cttcagcgat atgttcaact 360  
 atgaagaata ctggcaccgc caacgcattc actgggcctg cgtgcatcct tcccacgctg 420

gtactttgnc g 431

<210> 17  
 <211> 424  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> 1..424  
 <223> /note= "n at positions 6, 310 and 408 represent any nucleic acid"

<400> 17  
 tgggantcgc tgctcctctc tggggtcctg gcggccgacc gagaacgcag catccacgac 60  
 ttctgcctgg tgtcgaaggt ggtgggcaga tgccgggcct ccatgcctag gtggtggtac 120  
 aatgtcactg acggatcctg ccagctgttt gtgtatgggg gctgtgacgg aaacagcaat 180  
 aattacctga ccaaggagga gtgcctcaag aaatgtgcca ctgtcacaga gaatgccacg 240  
 ggtgacctgg ccaccagcag gaatgcagcg gattcctctg tcccaagtgc tcccagaagg 300  
 caggattctn gaagaccact ccagcgatat gttcaactat gaagaatact gcaccgccaa 360  
 cgcagtcact gggccttgcg tggaatcctt tcccacgctg gnaatttnga cgttgagaag 420  
 gaac 424

<210> 18  
 <211> 57  
 <212> PRT  
 <213> Unknown

<220>  
 <221>  
 <222>  
 <223> /note= "Tissue factor pathway inhibitor precursor 1"

<400> 18  
 His Ser Phe Cys Ala Phe Lys Ala Asp Asp Gly Pro Cys Lys Ala Ile  
 1 5 10 15  
 Met Lys Arg Phe Phe Phe Asn Ile Phe Thr Arg Gln Cys Glu Glu Phe  
 20 25 30  
 Ile Tyr Gly Gly Cys Glu Gly Asn Gln Asn Arg Phe Glu Ser Leu Glu  
 35 40 45  
 Glu Cys Lys Lys Met Cys Thr Arg Asp  
 50 55

<210> 19  
 <211> 57  
 <212> PRT  
 <213> Unknown

<220>  
 <223> /note= "Tissue factor pathway inhibitor precursor 1"

<400> 19  
 Pro Asp Phe Cys Phe Leu Glu Glu Asp Pro Gly Ile Cys Arg Gly Tyr

1                      5                      10                      15  
 Ile Thr Arg Tyr Phe Tyr Asn Asn Gln Thr Lys Gln Cys Glu Arg Phe  
                             20                      25                      30  
 Lys Tyr Gly Gly Cys Leu Gly Asn Met Asn Asn Phe Glu Thr Leu Glu  
                             35                      40                      45  
 Glu Cys Lys Asn Ile Cys Glu Asp Gly  
                             50                      55  
  
 <210> 20  
 <211> 57  
 <212> PRT  
 <213> Unknown  
  
 <220>  
 <223> /note= "Tissue factor pathway inhibitor precursor"  
  
 <400> 20  
 Pro Ser Trp Cys Leu Thr Pro Ala Asp Arg Gly Leu Cys Arg Ala Asn  
 1                      5                      10                      15  
 Glu Asn Arg Phe Tyr Tyr Asn Ser Val Ile Gly Lys Cys Arg Pro Phe  
                             20                      25                      30  
 Lys Tyr Ser Gly Cys Gly Gly Asn Glu Asn Asn Phe Thr Ser Lys Gln  
                             35                      40                      45  
 Glu Cys Leu Arg Ala Cys Lys Lys Gly  
                             50                      55  
  
 <210> 21  
 <211> 57  
 <212> PRT  
 <213> Unknown  
  
 <220>  
 <223> /note= "Tissue factor pathway inhibitor precursor 2"  
  
 <400> 21  
 Ala Glu Ile Cys Leu Leu Pro Leu Asp Tyr Gly Pro Cys Arg Ala Leu  
 1                      5                      10                      15  
 Leu Leu Arg Tyr Tyr Tyr Arg Tyr Arg Thr Gln Ser Cys Arg Gln Phe  
                             20                      25                      30  
 Leu Tyr Gly Gly Cys Glu Gly Asn Ala Asn Asn Phe Tyr Thr Trp Glu  
                             35                      40                      45  
 Ala Cys Asp Asp Ala Cys Trp Arg Ile  
                             50                      55  
  
 <210> 22  
 <211> 57  
 <212> PRT  
 <213> Unknown  
  
 <220>  
 <223> /note= "Tissue factor pathway inhibitor precursor 2"  
  
 <400> 22  
 Pro Ser Phe Cys Tyr Ser Pro Lys Asp Glu Gly Leu Cys Ser Ala Asn

1                      5                      10                      15  
 Val Thr Arg Tyr Tyr Phe Asn Pro Arg Tyr Arg Thr Cys Asp Ala Phe  
                          20                      25                      30  
 Thr Tyr Thr Gly Cys Gly Asn Asn Asp Asn Asn Phe Val Ser Arg Glu  
                          35                      40                      45  
 Asp Ser Lys Arg Ala Cys Ala Lys Ala  
                          50                      55  
  
 <210> 23  
 <211> 57  
 <212> PRT  
 <213> Unknown  
  
 <220>  
 <223> /note= "Amyloid Precursor Protein homologue"  
  
 <400> 23  
 Lys Ala Val Cys Ser Gln Glu Ala Met Thr Gly Pro Cys Arg Ala Val  
 1                      5                      10                      15  
 Met Pro Arg Thr Thr Phe Asp Leu Ser Lys Gly Lys Cys Val Arg Phe  
                          20                      25                      30  
 Ile Thr Gly Gly Cys Gly Gly Asn Arg Asn Asn Phe Glu Ser Glu Asp  
                          35                      40                      45  
 Tyr Cys Met Ala Val Cys Lys Ala Met  
                          50                      55  
  
 <210> 24  
 <211> 58  
 <212> PRT  
 <213> Unknown  
  
 <220>  
 <223> /note= "Aprotinin"  
  
 <400> 24  
 Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Lys Ala  
 1                      5                      10                      15  
 Arg Ile Ile Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr  
                          20                      25                      30  
 Phe Val Tyr Gly Gly Cys Arg Ala Lys Arg Asn Asn Phe Lys Ser Ala  
                          35                      40                      45  
 Glu Asp Cys Met Arg Thr Cys Gly Gly Ala  
                          50                      55  
  
 <210> 25  
 <211> 51  
 <212> PRT  
 <213> Unknown  
  
 <220>  
 <223> /note= "Inter alpha-trypsin inhibitor precursor"  
  
 <400> 25  
 Cys Gln Leu Gly Tyr Ser Ala Gly Pro Cys Met Gly Met Thr Ser Arg



1 5 10 15

Trp Tyr Tyr Asp Pro Asn Thr Lys Ser Cys Ala Arg Phe Trp Tyr Gly  
20 25 30

Gly Cys Gly Gly Asn Glu Asn Lys Phe Gly Ser Gln Lys Glu Cys Glu  
35 40 45

Lys Val Cys  
50

<210> 29  
<211> 57  
<212> PRT  
<213> Unknown

<220>  
<223> /note= "HKI-B9"

<400> 29  
Pro Asn Val Cys Ala Phe Pro Met Glu Lys Gly Pro Cys Gln Thr Tyr  
1 5 10 15

Met Thr Arg Trp Phe Phe Asn Phe Glu Thr Gly Glu Cys Glu Leu Phe  
20 25 30

Ala Tyr Gly Gly Cys Gly Gly Asn Ser Asn Asn Phe Leu Arg Lys Glu  
35 40 45

Lys Cys Glu Lys Phe Cys Lys Phe Thr  
50 55

<210> 30  
<211> 46  
<212> DNA  
<213> S. cerevisiae

<400> 30  
gccaaagcttg gataaaagat atgaagaata ctgcaccgcc aacgca 46

<210> 31  
<211> 35  
<212> DNA  
<213> S. cerevisiae

<400> 31  
ggggatcctc actgctggcg gaagcagcgg agcat 35

<210> 32  
<211> 206  
<212> DNA  
<213> Homo sapien

<220>  
<223> /note= "cDNA of human Bikunin protein fragment"

<400> 32  
ccaagcttgg ataaaagata tgaagaatac tgcaccgcc aacgcagtcac tgggccttgc 60  
cgtgcatacct tcccacgctg gtactttgac gtggagagga actcctgcaa taacttcac 120  
tatggaggct gccggggcaa taagaacagc taccgctctg aggaggcctg catgctccgc 180

tgcttccgcc agcagtgagg atcccc	206
<210> 33	
<211> 28	
<212> DNA	
<213> Homo sapien	
<400> 33	
cgaagcttca tctccgaagc tccagacg	28
<210> 34	
<211> 31	
<212> DNA	
<213> Homo sapien	
<400> 34	
aggatctaga caataattac ctgaccaagg a	31
<210> 35	
<211> 36	
<212> DNA	
<213> Homo sapien	
<400> 35	
ggtctagagg ccgggtcgtt tctcgctgg ctggga	36
<210> 36	
<211> 19	
<212> DNA	
<213> Homo sapien	
<400> 36	
cacctgatcg cgagacccc	19
<210> 37	
<211> 19	
<212> DNA	
<213> Homo sapien	
<400> 37	
gatttaggtg acactatag	19
<210> 38	
<211> 20	
<212> DNA	
<213> Homo sapien	
<400> 38	
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<210> 39	
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<212> DNA	
<213> Homo sapien	
<400> 39	
ttacctgacc aaggaggagt gc	22
<210> 40	
<211> 23	
<212> DNA	
<213> Homo sapien	

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<400> 40
aatccgctgc attcctgctg gtg
23

<210> 41
<211> 20
<212> DNA
<213> Homo sapien

<400> 41
cagtcactgg gccttgccgt
20

<210> 42
<211> 105
<212> DNA
<213> Homo sapien

<400> 42
gaaggggtaa gcttggataa aagatatgaa gaatactgca ccgccaacgc agtcactggg
60
ccttgccgtg catccttccc acgctggtac tttgacgtgg agagg
105

<210> 43
<211> 129
<212> DNA
<213> Homo sapien

<400> 43
cgcggatccc tactggcgga agcagcggag catgcaggcc tcctcagagc ggtagctgtt
60
cttattgccc cggcagcctc catagatgaa gttattgcag gagttcctct ccacgtcaaa
120
gtaccagcg
129

<210> 44
<211> 207
<212> DNA
<213> Homo sapien

<400> 44
gaaggggtaa gcttggataa aagatatgaa gaatactgca ccgccaacgc agtcactggg
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ccttgccgtg catccttccc acgctggtac tttgacgtgg agaggaaactc ctgcaataac
120
ttcatctatg gaggctgccg gggcaataag aacagctacc gctctgagga ggctgcatg
180
ctccgctgct tccgccagta gggatcc
207

<210> 45
<211> 248
<212> PRT
<213> Homo sapien

<220>
<221> Region
<222> 1..18
<223> /label= signal peptide

<400> 45
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1 5 10 15
Leu Leu Ser Gly Val Leu Ala Ala Asp Arg Glu Arg Ser Ile His Asp
20 25 30

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Phe Cys Leu Val Ser Lys Val Val Gly Arg Cys Arg Ala Ser Met Pro  
 35 40 45  
 Arg Trp Trp Tyr Asn Val Thr Asp Gly Ser Cys Gln Leu Phe Val Tyr  
 50 55 60  
 Gly Gly Cys Asp Gly Asn Ser Asn Asn Tyr Leu Thr Lys Glu Glu Cys  
 65 70 75 80  
 Leu Lys Lys Cys Ala Thr Val Thr Glu Asn Ala Thr Gly Asp Leu Ala  
 85 90 95  
 Thr Ser Arg Asn Ala Ala Asp Ser Ser Val Pro Ser Ala Pro Arg Arg  
 100 105 110  
 Gln Asp Ser Glu Asp His Ser Ser Asp Met Phe Asn Tyr Glu Glu Tyr  
 115 120 125  
 Cys Thr Ala Asn Ala Val Thr Gly Pro Cys Arg Ala Ser Phe Pro Arg  
 130 135 140  
 Trp Tyr Phe Asp Val Glu Arg Asn Ser Cys Asn Asn Phe Ile Tyr Gly  
 145 150 155 160  
 Gly Cys Arg Gly Asn Lys Asn Ser Tyr Arg Ser Glu Glu Ala Cys Met  
 165 170 175  
 Leu Arg Cys Phe Arg Gln Gln Glu Asn Pro Pro Leu Pro Leu Gly Ser  
 180 185 190  
 Lys Val Val Val Leu Ala Gly Leu Phe Val Met Val Leu Ile Leu Phe  
 195 200 205  
 Leu Gly Ala Ser Met Val Tyr Leu Ile Arg Val Ala Arg Arg Asn Gln  
 210 215 220  
 Glu Arg Ala Leu Arg Thr Val Trp Ser Ser Gly Asp Asp Lys Glu Gln  
 225 230 235 240  
 Leu Val Lys Asn Thr Tyr Val Leu  
 245

<210> 46  
 <211> 213  
 <212> PRT  
 <213> Homo sapien

<400> 46  
 Ala Asp Arg Glu Arg Ser Ile His Asp Phe Cys Leu Val Ser Lys Val  
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 Val Gly Arg Cys Arg Ala Ser Met Pro Arg Trp Trp Tyr Asn Val Thr  
 20 25 30  
 Asp Gly Ser Cys Gln Leu Phe Val Tyr Gly Gly Cys Asp Gly Asn Ser  
 35 40 45  
 Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu Lys Lys Cys Ala Thr Val  
 50 55 60  
 Thr Glu Asn Ala Thr Gly Asp Leu Ala Thr Ser Arg Asn Ala Ala Asp  
 65 70 75 80

Ser Ser Val Pro Ser Ala Pro Arg Arg Gln Asp Ser Glu Asp His Ser  
                     85                    90                    95  
 Ser Asp Met Phe Asn Tyr Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr  
                     100                    105                    110  
 Gly Pro Cys Arg Ala Ser Phe Pro Arg Trp Tyr Phe Asp Val Glu Arg  
                     115                    120                    125  
 Asn Ser Cys Asn Asn Phe Ile Tyr Gly Gly Cys Arg Gly Asn Lys Asn  
                     130                    135                    140  
 Ser Tyr Arg Ser Glu Glu Ala Cys Met Leu Arg Cys Phe Arg Gln Gln  
                     145                    150                    155                    160  
 Glu Asn Pro Pro Leu Pro Leu Gly Ser Lys Val Val Val Leu Ala Gly  
                     165                    170                    175  
 Leu Phe Val Met Val Leu Ile Leu Phe Leu Gly Ala Ser Met Val Tyr  
                     180                    185                    190  
 Leu Ile Arg Val Ala Arg Arg Asn Gln Glu Arg Ala Leu Arg Thr Val  
                     195                    200                    205  
 Trp Ser Phe Gly Asp  
                     210

<210> 47  
 <211> 240  
 <212> PRT  
 <213> Homo sapien

<220>  
 <221> Region  
 <222> 1..18  
 <223> /label= signal peptide

<400> 47  
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 Leu Gly Ser Leu Leu Leu Ser Gly Val Leu Ala Ala Asp Arg Glu Arg  
                     20                    25                    30  
 Ser Ile His Asp Phe Cys Leu Val Ser Lys Val Val Gly Arg Cys Arg  
                     35                    40                    45  
 Ala Ser Met Pro Arg Trp Trp Tyr Asn Val Thr Asp Gly Ser Cys Gln  
                     50                    55                    60  
 Leu Phe Val Tyr Gly Gly Cys Asp Gly Asn Ser Asn Asn Tyr Leu Thr  
 65                    70                    75                    80  
 Lys Glu Glu Cys Leu Lys Lys Cys Ala Thr Val Thr Glu Asn Ala Thr  
                     85                    90                    95  
 Gly Asp Leu Ala Thr Ser Arg Asn Ala Ala Asp Ser Ser Val Pro Ser  
                     100                    105                    110  
 Ala Pro Arg Arg Gln Asp Ser Glu Asp His Ser Ser Asp Met Phe Asn  
                     115                    120                    125

Tyr Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr Gly Pro Cys Arg Ala  
 130 135 140  
 Ser Phe Pro Arg Trp Tyr Phe Asp Val Glu Arg Asn Ser Cys Asn Asn  
 145 150 155 160  
 Phe Ile Tyr Gly Gly Cys Arg Gly Asn Lys Asn Ser Tyr Arg Ser Glu  
 165 170 175  
 Glu Ala Cys Met Leu Arg Cys Phe Arg Gln Gln Glu Asn Pro Pro Leu  
 180 185 190  
 Pro Leu Gly Ser Lys Val Val Val Leu Ala Gly Leu Phe Val Met Val  
 195 200 205  
 Leu Ile Leu Phe Leu Gly Ala Ser Met Val Tyr Leu Ile Arg Val Ala  
 210 215 220  
 Arg Arg Asn Gln Glu Arg Ala Leu Arg Thr Val Trp Ser Phe Gly Asp  
 225 230 235 240  
 <210> 48  
 <211> 225  
 <212> PRT  
 <213> Homo sapiens  
 <400> 48  
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 Val Gly Arg Cys Arg Ala Ser Met Pro Arg Trp Trp Tyr Asn Val Thr  
 20 25 30  
 Asp Gly Ser Cys Gln Leu Phe Val Tyr Gly Gly Cys Asp Gly Asn Ser  
 35 40 45  
 Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu Lys Lys Cys Ala Thr Val  
 50 55 60  
 Thr Glu Asn Ala Thr Gly Asp Leu Ala Thr Ser Arg Asn Ala Ala Asp  
 65 70 75 80  
 Ser Ser Val Pro Ser Ala Pro Arg Arg Gln Asp Ser Glu Asp His Ser  
 85 90 95  
 Ser Asp Met Phe Asn Tyr Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr  
 100 105 110  
 Gly Pro Cys Arg Ala Ser Phe Pro Arg Trp Tyr Phe Asp Val Glu Arg  
 115 120 125  
 Asn Ser Cys Asn Asn Phe Ile Tyr Gly Gly Cys Arg Gly Asn Lys Asn  
 130 135 140  
 Ser Tyr Arg Ser Glu Glu Ala Cys Met Leu Arg Cys Phe Arg Gln Gln  
 145 150 155 160  
 Glu Asn Pro Pro Leu Pro Leu Gly Ser Lys Val Val Val Leu Ala Gly  
 165 170 175  
 Leu Phe Val Met Val Leu Ile Leu Phe Leu Gly Ala Ser Met Val Tyr  
 180 185 190

Leu Ile Arg Val Ala Arg Arg Asn Gln Glu Arg Ala Leu Arg Thr Val  
 195 200 205  
 Trp Ser Ser Gly Asp Asp Lys Glu Gln Leu Val Lys Asn Thr Tyr Val  
 210 215 220  
 Leu  
 225  
 <210> 49  
 <211> 252  
 <212> PRT  
 <213> Homo sapien  
 <220>  
 <221> Region  
 <222> 1..18  
 <223> /label= signal peptide  
 <400> 49  
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 1 5 10 15  
 Leu Gly Ser Leu Leu Leu Ser Gly Val Leu Ala Ala Asp Arg Glu Arg  
 20 25 30  
 Ser Ile His Asp Phe Cys Leu Val Ser Lys Val Val Gly Arg Cys Arg  
 35 40 45  
 Ala Ser Met Pro Arg Trp Trp Tyr Asn Val Thr Asp Gly Ser Cys Gln  
 50 55 60  
 Leu Phe Val Tyr Gly Gly Cys Asp Gly Asn Ser Asn Asn Tyr Leu Thr  
 65 70 75 80  
 Lys Glu Glu Cys Leu Lys Lys Cys Ala Thr Val Thr Glu Asn Ala Thr  
 85 90 95  
 Gly Asp Leu Ala Thr Ser Arg Asn Ala Ala Asp Ser Ser Val Pro Ser  
 100 105 110  
 Ala Pro Arg Arg Gln Asp Ser Glu Asp His Ser Ser Asp Met Phe Asn  
 115 120 125  
 Tyr Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr Gly Pro Cys Arg Ala  
 130 135 140  
 Ser Phe Pro Arg Trp Tyr Phe Asp Val Glu Arg Asn Ser Cys Asn Asn  
 145 150 155 160  
 Phe Ile Tyr Gly Gly Cys Arg Gly Asn Lys Asn Ser Tyr Arg Ser Glu  
 165 170 175  
 Glu Ala Cys Met Leu Arg Cys Phe Arg Gln Gln Glu Asn Pro Pro Leu  
 180 185 190  
 Pro Leu Gly Ser Lys Val Val Val Leu Ala Gly Leu Phe Val Met Val  
 195 200 205  
 Leu Ile Leu Phe Leu Gly Ala Ser Met Val Tyr Leu Ile Arg Val Ala  
 210 215 220  
 Arg Arg Asn Gln Glu Arg Ala Leu Arg Thr Val Trp Ser Ser Gly Asp



50                                      55                                      60  
 Thr Glu Asn Ala Thr Gly Asp Leu Ala Thr Ser Arg Asn Ala Ala Asp  
 65                                      70                                      75                                      80  
 Ser Ser Val Pro Ser Ala Pro Arg Arg Gln Asp Ser Glu Asp His Ser  
                                     85                                      90                                      95  
 Ser Asp Met Phe Asn Tyr Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr  
                                     100                                      105                                      110  
 Gly Pro Cys Arg Ala Ser Phe Pro Arg Trp Tyr Phe Asp Val Glu Arg  
                                     115                                      120                                      125  
 Asn Ser Cys Asn Asn Phe Ile Tyr Gly Gly Cys Arg Gly Asn Lys Asn  
                                     130                                      135                                      140  
 Ser Tyr Arg Ser Glu Glu Ala Cys Met Leu Arg Cys Phe Arg Gln Gln  
 145                                      150                                      155                                      160  
 Glu Asn Pro Pro Leu Pro Leu Gly Ser Lys  
                                     165                                      170  
  
 <210> 52  
 <211> 170  
 <212> PRT  
 <213> Homo sapien  
  
 <220>  
 <223> /note= "Human Bikunin protein fragment"  
  
 <400> 52  
 Ala Asp Arg Glu Arg Ser Ile His Asp Phe Cys Leu Val Ser Lys Val  
 1                                      5                                      10                                      15  
 Val Gly Arg Cys Arg Ala Ser Met Pro Arg Trp Trp Tyr Asn Val Thr  
                                     20                                      25                                      30  
 Asp Gly Ser Cys Gln Leu Phe Val Tyr Gly Gly Cys Asp Gly Asn Ser  
                                     35                                      40                                      45  
 Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu Lys Lys Cys Ala Thr Val  
                                     50                                      55                                      60  
 Thr Glu Asn Ala Thr Gly Asp Leu Ala Thr Ser Arg Asn Ala Ala Asp  
 65                                      70                                      75                                      80  
 Ser Ser Val Pro Ser Ala Pro Arg Arg Gln Asp Ser Glu Asp His Ser  
                                     85                                      90                                      95  
 Ser Asp Met Phe Asn Tyr Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr  
                                     100                                      105                                      110  
 Gly Pro Cys Arg Ala Ser Phe Pro Arg Trp Tyr Phe Asp Val Glu Arg  
                                     115                                      120                                      125  
 Asn Ser Cys Asn Asn Phe Ile Tyr Gly Gly Cys Arg Gly Asn Lys Asn  
                                     130                                      135                                      140  
 Ser Tyr Arg Ser Glu Glu Ala Cys Met Leu Arg Cys Phe Arg Gln Gln  
 145                                      150                                      155                                      160  
 Glu Asn Pro Pro Leu Pro Leu Gly Ser Lys

165 170

<210> 53  
 <211> 27  
 <212> PRT  
 <213> Homo sapien

<220>  
 <223> /note= "Signal peptide of Human Bikunin protein"

<400> 53  
 Met Ala Gln Leu Cys Gly Leu Arg Arg Ser Arg Ala Phe Leu Ala Leu  
 1 5 10 15  
 Leu Gly Ser Leu Leu Ser Gly Val Leu Ala  
 20 25

<210> 54  
 <211> 23  
 <212> PRT  
 <213> Homo sapien

<220>  
 <223> Human Bikunin protein fragment

<400> 54  
 Met Leu Arg Ala Glu Ala Asp Gly Asn Ser Arg Leu Leu Gly Ser Leu  
 1 5 10 15  
 Leu Leu Ser Gly Val Leu Ala  
 20

<210> 55  
 <211> 102  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> /note= "Oligomer for preparing expression construct"

<400> 55  
 gaaggggtaa gcttgataa aagagaagaa tactgtactg ctaatgctgt tactgggtcca 60  
 tgtagagctt cttttccaag atggtacttt gatgttgaaa ga 102

<210> 56  
 <211> 129  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <223> Oligomer for preparing expression construct

<400> 56  
 actggatcct cattggcgaa aacatctcaa catacaggct tcttcagatc tgtaagaatt 60  
 tttattacct ctacaaccac cgtaaataaa attattacaa gaatttcttt caacatcaaa 120  
 gtaccatct 129

<210> 57  
 <211> 108  
 <212> DNA

<213> Artificial sequence

<220>

<223> /note= "Oligomer for preparing expression construct"

<400> 57  
gaaggggtaa gcttggataa aagaaattac gaagaatact gtactgctaa tgctgttact 60  
ggtccatgta gagcttcttt tccaagatgg tactttgatg ttgaaaga 108

<210> 58  
<211> 117  
<212> DNA  
<213> Artificial sequence

<220>

<223> /note= "Oligomer for preparing expression construct"

<400> 58  
gaaggggtaa gcttggataa aagagatatg tttaattacg aagaatactg tactgctaata 60  
gctgttactg gtccatgtag agcttctttt ccaagatggg actttgatgt tgaaaga 117

<210> 59  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 59  
cacctgatcg cgaagacccc 20

<210> 60  
<211> 23  
<212> DNA  
<213> Homo sapiens

<400> 60  
ctggcggaag cagcggagca tgc 23

<210> 61  
<211> 45  
<212> DNA  
<213> Artificial sequence

<220>

<223> /note= "Oligomer for preparing Bikunin expression construct"

<400> 61  
cgcgctctcgg ctgacctggc cctgcagatg gcgcacgtgt gcggg 45

<210> 62  
<211> 60  
<212> DNA  
<213> Artificial sequence

<220>

<223> /note= "Oligomer for preparing Bikunin construct"

<400> 62  
ctgccccttg gctcaaagta ggaagatctt cccccgggg ggggtggttct ggcggggctg 60

<210> 63  
<211> 14  
<212> PRT



<213> Homo sapien

<220>

<223> /note= "Human Bikunin protein fragment"

<400> 63

Leu Arg Cys Phe Arg Gln Gln Glu Asn Pro Pro Pro Leu Gly  
1 5 10

<210> 64

<211> 20

<212> PRT

<213> Homo sapien

<220>

<223> /note= "Human Bikunin protein fragment"

<400> 64

Ala Asp Arg Glu Arg Ser Ile His Asp Phe Cys Leu Val Ser Lys Val  
1 5 10 15

Val Gly Arg Cys  
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<210> 65

<211> 20

<212> PRT

<213> Homo sapien

<220>

<223> /note= "Human Bikunin protein fragment"

<400> 65

Phe Asn Tyr Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr Gly Pro Cys  
1 5 10 15

Arg Ala Ser Phe  
20

<210> 66

<211> 10

<212> PRT

<213> Homo sapien

<220>

<223> /note= "Human Bikunin protein fragment"

<400> 66

Pro Tyr Val Asp Gly Ser Gln Phe Tyr Gly  
1 5 10

<210> 67

<211> 55

<212> PRT

<213> Homo sapien

<220>

<223> /note= "Human Bikunin protein fragment"

<400> 67

Val Val Val Leu Ala Gly Leu Phe Val Met Val Leu Ile Leu Phe Leu  
1 5 10 15

Gly Ala Ser Met Val Tyr Leu Ile Arg Val Ala Arg Arg Asn Gln Glu  
20 25 30  
Arg Ala Leu Arg Thr Val Trp Ser Ser Gly Asp Asp Lys Glu Gln Leu  
35 40 45  
Val Lys Asn Thr Tyr Val Leu  
50 55

<210> 68  
<211> 43  
<212> PRT  
<213> Homo sapien

<220>  
<223> /note= "Human Bikunin protein fragment"

<400> 68  
Val Val Val Leu Ala Gly Leu Phe Val Met Val Leu Ile Leu Phe Leu  
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20 25 30  
Arg Ala Leu Arg Thr Val Trp Ser Phe Gly Asp  
35 40

<210> 69  
<211> 55  
<212> PRT  
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<220>  
<223> /note= "Human Bikunin protein fragment"

<400> 69  
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Gly Ala Ser Met Val Tyr Leu Ile Arg Val Ala Arg Arg Asn Gln Glu  
20 25 30  
Arg Ala Leu Arg Thr Val Trp Ser Ser Gly Asp Asp Lys Glu Gln Leu  
35 40 45

Val Lys Asn Thr Tyr Val Leu  
50 55

<210> 70  
<211> 213  
<212> PRT  
<213> Homo sapien

<220>  
<223> /note= "Human Bikunin protein fragment"

<400> 70  
Ala Asp Arg Glu Arg Ser Ile His Asp Phe Cys Leu Val Ser Lys Val  
1 5 10 15  
Val Gly Arg Cys Arg Ala Ser Met Pro Arg Trp Trp Tyr Asn Val Thr  
20 25 30

Asp Gly Ser Cys Gln Leu Phe Val Tyr Gly Gly Cys Asp Gly Asn Ser  
           35                          40                          45  
 Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu Lys Lys Cys Ala Thr Val  
       50                          55                          60  
 Thr Glu Asn Ala Thr Gly Asp Leu Ala Thr Ser Arg Asn Ala Ala Asp  
 65                          70                          75                          80  
 Ser Ser Val Pro Ser Ala Pro Arg Arg Gln Asp Ser Glu Asp His Ser  
                           85                          90                          95  
 Ser Asp Met Phe Asn Tyr Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr  
                           100                          105                          110  
 Gly Pro Cys Arg Ala Ser Phe Pro Arg Trp Tyr Phe Asp Val Glu Arg  
           115                          120                          125  
 Asn Ser Cys Asn Asn Phe Ile Tyr Gly Gly Cys Arg Gly Asn Lys Asn  
       130                          135                          140  
 Ser Tyr Arg Ser Glu Glu Ala Cys Met Leu Arg Cys Phe Arg Gln Gln  
 145                          150                          155                          160  
 Glu Asn Pro Pro Leu Pro Leu Gly Ser Lys Val Val Val Leu Ala Gly  
                           165                          170                          175  
 Leu Phe Val Met Val Leu Ile Leu Phe Leu Gly Ala Ser Met Val Tyr  
                           180                          185                          190  
 Leu Ile Arg Val Ala Arg Arg Asn Gln Glu Arg Ala Leu Arg Thr Val  
       195                          200                          205  
 Trp Ser Phe Gly Asp  
       210

<210> 71  
 <211> 225  
 <212> PRT  
 <213> Homo sapien

<220>  
 <223> /note= "Human Bikunin protein fragment"

<400> 71  
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 1                          5                          10                          15  
 Val Gly Arg Cys Arg Ala Ser Met Pro Arg Trp Trp Tyr Asn Val Thr  
           20                          25                          30  
 Asp Gly Ser Cys Gln Leu Phe Val Tyr Gly Gly Cys Asp Gly Asn Ser  
       35                          40                          45  
 Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu Lys Lys Cys Ala Thr Val  
       50                          55                          60  
 Thr Glu Asn Ala Thr Gly Asp Leu Ala Thr Ser Arg Asn Ala Ala Asp  
 65                          70                          75                          80  
 Ser Ser Val Pro Ser Ala Pro Arg Arg Gln Asp Ser Glu Asp His Ser  
                           85                          90                          95

Ser Asp Met Phe Asn Tyr Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr  
 100 105 110  
 Gly Pro Cys Arg Ala Ser Phe Pro Arg Trp Tyr Phe Asp Val Glu Arg  
 115 120 125  
 Asn Ser Cys Asn Asn Phe Ile Tyr Gly Gly Cys Arg Gly Asn Lys Asn  
 130 135 140  
 Ser Tyr Arg Ser Glu Glu Ala Cys Met Leu Arg Cys Phe Arg Gln Gln  
 145 150 155 160  
 Glu Asn Pro Pro Leu Pro Leu Gly Ser Lys Val Val Val Leu Ala Gly  
 165 170 175  
 Leu Phe Val Met Val Leu Ile Leu Phe Leu Gly Ala Ser Met Val Tyr  
 180 185 190  
 Leu Ile Arg Val Ala Arg Arg Asn Gln Glu Arg Ala Leu Arg Thr Val  
 195 200 205  
 Trp Ser Ser Gly Asp Asp Lys Glu Gln Leu Val Lys Asn Thr Tyr Val  
 210 215 220  
 Leu  
 225